KOI300 Online Water Oil Analyzer

Introduction

KOI300 online water oil analyzer is an online water quality analyzer based on OSA optical water quality analysis platform. In an integrated design, high brightness UV leds of a specific wavelength excite the Polycyclic aromatic hydrocarbon to make them fluoresce, and high sensitivity photoelectric sensors capture weak fluorescence signals that can be converted into oil concentrations in water. Digital, intelligent sensor design concept, can automatically compensate for voltage fluctuations, device aging, temperature changes on the impact of measured values. RS485 signal output, easy networking and system integration, widely used in surface water, pollution sources and other industries.

Characteristic

- Integrated design, anti-electromagnetic interference
- Using high brightness UV LED as excitation light source, can work stably for a long time
- The unique optical and electronic filtering technology is used to eliminate the influence of ambient light on the measurement
- Cleaning brush automatic cleaning, greatly reducing the maintenance workload
- Stainless steel case, IP68 waterproof grade, suitable for various working conditions
- RS485 signal output, Standard Modbus protocol, easy integration, networking

Technical Specifications

Model number	KOI300
Measurement parameter	Oil in water (crude) , temperature
Method of measurement	Fluorimetry
Measurement mode	Immersion measurement
	Oil in water: (0 ~ 500) mg/L

Measuring range	Temperature: (0 ~ 60) °C
Accuracy	≤ ± 3%
Repeatability	≤2%
Resolution	0.01 MGL
Detection limit	Based on the actual oil sample
Response time	≤10s
Zero Drift (24h)	≤ ± 1% F.S.
Range Drift (24h)	≤ ± 1% F.S.
Calibration period	Six months
Temperature range	(0 ~ 60) °C
Protection level	IP68
Cleaning mode	Automatic cleaning of mechanical brush
MTBF	≥1440h/Time
Means of communication	RS485(Modbus RTU) , maximum baud rate 115200 bps
Supply voltage	(12/24) V DC
Power consumption	< 1W (in non-cleaning mode)
Material Quality	Stainless steel, POM
Weight	0.5 kg
Contour dimension	160 mm × φ40 mm